



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. BOX 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/051,639	01/18/2002	Craig T. Salling	TI-32536	8729
23494	7590 09/25/2003			
TEXAS INSTRUMENTS INCORPORATED			EXAMINER	
P O BOX 655474, M/S 3999 DALLAS, TX 75265			LANDAU, MATTHEW C	
			ART UNIT	PAPER NUMBER
			2815	
			DATE MAILED: 09/25/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicar	nt(s)			
· .	10/051,639	SALLING	SALLING ET AL.			
Office Action Summary	Examiner	Art Unit				
	Matthew Landau	2815	+			
The MAILING DATE of this communication appears on the cov r sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 26 J	<u>une 2003</u> .					
2a)⊠ This action is FINAL . 2b)□ Thi	s action is non-fir	ıal.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. Disposition of Claims						
4)⊠ Claim(s) 1-7 and 9-18 is/are pending in the application.						
4a) Of the above claim(s) <u>9-18</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-7</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>05 April 2002</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5)	Interview Summary (PTO-413) Notice of Informal Patent Applic Other:				

Application/Control Number: 10/051,639

Art Unit: 2815

DETAILED ACTION

Claim Objections

Claim 1 is objected to because of the following informalities: There is insufficient antecedent basis for the following limitations in the claim: "the surface", "said surface", "the distance", "said buried layer junction", "the remainder", "said surface regions", and "the depth". Furthermore, it is unclear if term "depth" referred to in the limitation "said isolation zone having a depth of 300 to 400 nm" is the same as "the depth" referred to earlier in the claim. It is suggested the above limitation be changed to read "wherein the depth of said isolation zone [having a depth of] is from 300 to 400 nm."

In regards to claims 3 and 6, there is insufficient antecedent basis for "the resistivity range".

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regards to claim 1, the limitation "extending vertically from said surface regions" renders the claim indefinite. It is unclear what is extending from the regions. Also, does this mean the element extending vertically is in contact with the surface regions?

Application/Control Number: 10/051,639

Art Unit: 2815

Allowable Subject Matter

Claims 1-7 would be allowable if rewritten or amended to overcome claim objections and

the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure. Iranmanesh and Marum disclose bipolar transistor structures with a buried collector

layer and base and emitter portions surrounded by a well.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Matthew C. Landau whose telephone number is (703) 305-4396.

The examiner can normally be reached from 8:00 AM-4: 30 PM. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Lee can be reached on

(703) 308-1690. The fax phone numbers for the organization where this application or

proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7722 for

After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

Matthew C. Landau

Examiner

September 11, 2003

J**EROM**E JACKSON PRIMARY EXAMINER